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Observations of Comet 1892 a (Swift), made at the Royal Observatory, Cape of Good Hope.

(Communicated by D. Gill, LL.D., F.R.S., H.M. Astronomer.)

1892.	Cape Mean Time.	Comet−✱ Δα	Comet−✱ Δδ	No. of Comp. R.A.	No. of Comp. N.P.D.	Observer.	Comet App. R.A.	Log p×Δ	Comet App. Decl.	Log p×Δ	Red. to App. Place.		Comp. Star No.
	h m s	m s	′ ″				h m s		° ′ ″		s	″	
Mar. 8	16 58 31·8	−1 16·42	−1 54·8	6	6	F.	19 6 27·78	9·960	−30 2 54·4	0·213	−0·87	−5·2	1
9	15 31 24·5	...	−3 26·6	...	2	F.	...	...	−29 16 33·3	0·453	−0·82	−5·5	2
	15 41 22·0	−1 34·78	...	8	0	F.	19 11 3·31	9·704	...	...	−0·82	−5·5	2
10	15 50 13·3	+1 3·35	+0 20·5	8	8	F.	19 15 53·53	9·693	−28 25 24·2	0·430	−0·83	−5·7	3
11	15 42 1·5	−2 41·44	+0 14·5	8	8	F.	19 20 37·60	9·698	−27 34 2·3	0·464	−0·83	−6·0	4
16	15 55 44·4	+2 49·93	+5 21·8	10	8	F.	19 43 51·53	9·672	−22 59 13·5	0·502	−0·74	−7·3	5
19	14 54 32·7	...	+3 4·9	...	2	F.	...	...	−20 6 9·0	0·609	−0·70	−8·1	6
	15 3 58·0	+2 54·25	...	2	0	F.	19 56 56·74	9·703	...	...	−0·70	−8·1	6
20	15 32 48·9	−0 23·36	+2 34·1	20	10	F.	20 1 34·52	9·682	−19 4 28·2	0·574	−0·71	−8·4	7
21	15 56 2·1	−1 47·96	−2 39·8	16	12	F.	...	9·661	...	0·560	−0·71	−8·7	8
23	15 46 25·6	−1 35·87	−1 56·6	12	12	F.	20 14 30·87	9·665	−16 0 9·9	0·588	−0·69	−9·1	9
26	16 3 0·6	...	−2 24·8	...	8	F.	...	...	−12 51 31·7	0·602	−0·66	−9·8	10
	16 15 58·8	−1 35·78	...	12	0	F.	20 27 7·04	9·629	...	...	−0·66	−9·8	10
29	16 3 52·0	...	−0 56·0	...	10	F.	...	...	...	0·628	−0·63	−10·5	11
	16 31 48·7	+0 24·18	...	6	0	F.	...	9·604	...	...	−0·63	−10·5	11
30	16 2 22·1	...	−1 22·0	...	4	F.	...	...	...	0·637	−0·63	−10·6	12
Apr. 1	16 16 55·3	+1 23·73	−3 5·9	12	12	F.	20 51 6·39	9·620	−6 30 2·9	0·647	−0·61	−11·1	13
3	16 5 21·9	+0 47·77	−3 46·9	12	12	F.	20 58 47·16	9·631	−4 24 1·6	0·665	−0·61	−11·4	14

The observations are corrected for refraction.

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Assumed Mean Places of Comparison Stars.

Comp. Star No.	R.A. 1892·0.			Declination. 1892·0.			Authority.
	h	m	s	°	′	″	
1	19	7	45·07	−30	0	54·4	Stone 10436.
2	19	12	38·91	−29	13	1·2	C.Z. XIX.^{h} 504.
3	19	14	51·01	−28	25	39·0	C.Z. XIX.^{h} 599 and comparison with C.Z. XIX.^{h} 480.
4	19	23	19·87	−27	34	10·8	A.G.C. 26690.
5	19	41	2·34	−23	4	28·0	A.G.C. 27096.
6	19	54	3·19	−20	9	5·8	Cincinnati Z. 3321.
7	20	1	58·59	−19	6	53·9	Cincinnati Z. 3341.
8	20	7	47	−18	0		B.D. −18°, 5624.
9	20	16	7·43	−15	58	4·2	Yarnall 9046.
10	20	28	43·48	−12	48	57·1	Santini 1868.
11	20	38	55	− 9	39		B.D. −9°, 5563.
12	20	44	34	− 8	36		B.D. −8°, 5490.
13	20	49	43·27	− 6	26	45·9	Munich Z. 4043.
14	20	58	0·00	− 4	20	3·3	Schj. 8465.

Notes.

March 9.—The comet shows a sharp nucleus, equal to a star of 9½ magnitude; the head is very bright and is visible to the naked eye as a hazy star of the fourth magnitude.

March 10.—Nucleus admits of very accurate observation.

March 19.—Thick fog prevented further observation.

March 21.—Well-defined nucleus, equal to star 9½ magnitude.

March 23.—Very bad definition; strong wind.

March 26.—A short faint tail visible in the finder.

March 30.—Fogged up completely before any right ascension could be secured.

April 1.—Nucleus sharp and bright, equal to a star 9 magnitude. Faint straight tail about 4° long.

April 2.—Nucleus not well defined; stars very unsteady.

All the observations have been made by Mr. W. H. Finlay.

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Observations of Wolf's Periodic Comet, made at the Cambridge Observatory with the Northumberland Equatoreal and Square Bar Micrometer. By A. Graham, M.A., Chief Assistant.

(Communicated by the Secretaries.)

1891.	Greenwich M.T.	R.A. ☄	Decl. ☄	No. of Comp.	Mean Places of Comparison Stars. R.A. 1891·0.	Mean Places of Comparison Stars. Decl. 1891·0.	Authority.
		h m s	° ′ ″		h m s	° ′ ″	
Aug.	15·46266	2 51 54·72	27 44 11·3	5	2 49 24·23	27 48 53·7	4 Meridian Observations, Cambridge.
	18·48913	2 59 45·09	27 23 39·9	5	2 59 5·85	27 26 41·7	3 ,, ,, ,,
	28·46021	3 24 27·97	25 44 33·0	5	3 24 45·94	25 47 9·2	4 ,, ,, ,,
	28·46021	3 24 28·28	25 44 34·0	5	3 26 0·96	25 50 6·6	1 ,, ,, ,,
	29·43224	3 26 45·27	25 32 24·2	5	3 30 37·32	25 38 20·9	4 ,, ,, ,,
Sept.	1·40023	3 33 38·76	24 51 46·3	10	3 34 15·63	24 58 35·5	2 ,, ,, ,,
	2·42124	3 35 58·67	24 36 35·1	6	3 38 39·42	24 29 47·7	3 ,, ,, ,,
	8·40088	3 48 57·99	22 57 34·4	10	3 50 36·04	22 51 29·6	3 ,, ,, ,,
	9·45960	3 51 8·85	22 38 8·3	5	3 52 42 04	22 40 38·8	3 ,, ,, ,,
	10·41493	3 53 4·99	22 20 6·9	5	3 50 25·59	22 9 48·5	3 ,, ,, ,,
	11·42903	3 55 7·53	22 0 22·1	5	3 58 15·00	21 47 0·4	A¹ Tauri, Nautical Almanac.
	12·42207	3 57 3·85	21 40 29·6	10	3 58 15·00	21 47 0·4	,, ,, ,,
	12·42207	3 57 3·73	21 40 30·3	10	3 58 53·04	21 42 50·9	A² Tauri, Greenwich Catalogue, 1880.
	14·43044	4 0 54·53	20 58 52·5	10	4 0 44·19	20 58 6·9	2 Meridian Observations, Cambridge.
	14·43044	4 0 54·69	20 58 51·0	10	4 1 19·04	20 58 14·0	4 ,, ,, ,,
	28·41396	4 23 20·21	15 14 2·2	10	4 20 7 98	15 22 14·4	71 Tauri, Greenwich Catalogue, 1872.
	28·41396	4 23 20·12	15 13 59·9	10	4 23 55·60	15 23 56·8	80 Tauri, Greenwich Catalogue, 1880.
Oct.	3·42147	4 29 19·01	12 49 30·4	10	4 27 39·46	13 1 18·4	3 Meridian Observations, Cambridge.
	3·42147	4 29 19·40	12 49 27·0	10	4 30 19·02	12 53 54·0	(*a*) ,, ,, ,,